

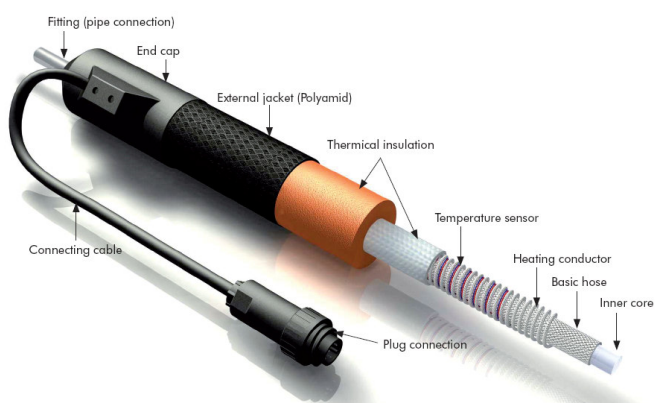
- Sampling Conditioning Systems
- Process Analytics
- System Integration
- Gas Generators
- FTIR-Analysers



conditioning systems

CONDITIONING SYSTEMS

Heated hose JH3FG and JH3FGR



FEATURES

- ◆ Customized construction
- ◆ Robust construction
- ◆ Excellent insulation
- ◆ Flexible outer protection
- ◆ Long lifetime
- ◆ JH3FG with non replaceable core
- ◆ JH3FGR with replaceable core

GENERAL

The heated hose series JH3F has especially been developed for the gas analysis technology. The flexible heated hose transports the sample gas from the sampling point to the sample gas conditioning unit. The heated JH3F keeps the temperature of the sample gas above the water and acid dew point and therefore avoids condensation and ensures that none of the gas components is discharged or lost. The heated hose is available in different constructions and manufactured according to customer's specifications.

TECHNOLOGY

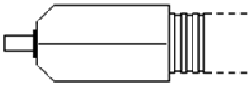
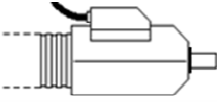

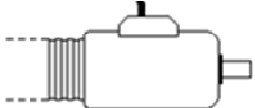
The core material of the heated line is a smooth PTFE hose with one braided layer of stainless steel wire, which ensures high flexibility and is used as a bend protection. The stainless steel wire is wrapped with a PTFE isolated heating conductor, which is protected against humidity and is used for an optimum temperature distribution.

A close pore, waterproof silicone hose is used for thermal insulation and ensures low heat losses. The heated hoses JH3FG and JH3FGR feature a flexible outer protection made of PA braid. A thermo element type K (NiCr-Ni) or a PT100 is used as a temperature sensor.

FEATURES

The electrical and thermal construction of the heated hose allows operating temperatures of up to 200°C. JCT can offer a multitude of end configurations for, which ensure easy integration in an existing analysis system. The heated hose type JH3FGR features a replaceable inner core, which allows an easy replacement at site in the case of contamination. Typical applications for the heated hose series JH3F are emission and process monitoring for mobile application and for fixed installation.

TECHNISCHE DATEN

Specification of end configuration				see note	see note
Side 2 (without cable)	Side 1 (feed cable)		Type	JH3FG	JH3FGR
F			A	hard cap	p RSL
H			C	silicone cap	p RSL

Note: p ... PTFE core 200 mm protruded
RSL ... SS 316 stubs, tube connector

JH3FG with non replaceable PTFE core
JH3FGR with replaceable PTFE core

DIMENSIONS OF HARD CAPS

NON REPLACEABLE CORE - TYPE JH3FG

Diameter of heated hose	Length	Outer diameter without cable (Type F)	Outer diameter with feed cable (Type A)
DN 4/6 mm	80 mm	38 mm	-
DN 6/8 mm	110 mm	51 mm	75 mm

REPLACEABLE CORE - TYPE JH3FGR

Diameter of heated hose	Length	Outer diameter without cable (Type F)	Outer diameter with feed cable (Type A)
DN 4/6 mm	110 mm	51 mm	75 mm
DN 6/8 mm	120 mm	54 mm	79 mm

DIMENSIONS OF SILICONE CAPS

NON REPLACEABLE CORE - TYPE JH3FG

Diameter of heated hose	Length	Outer diameter without cable (Type H)	Outer diameter with feed cable (Type C)
DN 4/6 mm	80 mm	38 mm	-
DN 6/8 mm	89 mm	46 mm	66 mm

REPLACEABLE CORE - TYPE JH3FGR

Diameter of heated hose	Length	Outer diameter without cable (Type F)	Outer diameter with feed cable (Type A)
DN 4/6 mm	89 mm	46 mm	66 mm
DN 6/8 mm	89 mm	46 mm	66 mm

SPECIFICATIONS

Operating temperature	Max. 200 °C
Max. operating pressure	10 bar
Ambient temperature	-40 °C - +140 °C
Application	Mobile and fixed installation indoor and outdoor
Core Material	PTFE; Optional: PFA
Heating wire	Construction according to DIN, protected against humidity, with braided protection
Thermal insulation	Close pore, waterproof silicone hose
External jacket	PA braid, black
End configuration	Hard caps or silicone caps (see above)

SPECIFICATIONS

Feed cable	3 m long with 7-pin connector
Connector type	7-pin connector for connection of temperature controller HT43 and HT55 Optional HANQ8-connector for connection of temperature controller HT41
Power supply	230 VAC or 115 VAC
Power consumption	100 W/meter
Length	Up to 50 m
Outer diameter	
Non replaceable core	DN 4/6 mm: 32 mm +/- 3 mm DN 6/8 mm: 42 mm +/- 3 mm
Replaceable core	DN 4/6 mm: 42 mm +/- 3 mm DN 6/8 mm: 48 mm +/- 3 mm
Minimum bending radius JH3FG / JH3FGR	DN 4/6 mm: 50 mm / 100 mm DN 6/8 mm: 75 mm / 120 mm

ORDER CODE

ORDER CODE JH3FG									
Temperature sensor PT100	2								
Temperature sensor PT100 + limiter	3								
Temperature sensor type K	4								
2 x Temperature sensor PT100	9								
Outer protection PA braid	0								
Without endconfiguration, core 200 mm protruded	0								
Stainless steel stubs approx. 30 mm long	6								
Length in dm (e.g.: 10 m = 100; 4,5 m = 045)	XXX								
Diameter DN 4/6 mm	4								
Diameter DN 6/8 mm	6								
PTFE core	PTFE								
PFA core	PFA								
Power supply 230 V/50-60 Hz	2								
Power supply 115 V/50-60 Hz	1								
End configuration side 2 Type F (without cable)	F								
End configuration side 2 Type H (without cable)	H								
End configuration side 1 Type A (feed cable)	A								
End configuration side 1 Type C (feed cable)	C								
Without calibration gas line	0								
Calibration gas line 2/3 mm	2								
Calibration gas line 4/6 mm	4								

Order code

JH3FG

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ORDER CODE

ORDER CODE JH3FGR									
Temperature sensor PT100									2
Temperature sensor PT100 + limiter									3
Temperature sensor type K									4
2 x Temperature sensor PT100									9
Outer protection PA braid			0						
Without endconfiguration, core 200 mm protruded				0					
Length in dm (e.g.: 10 m = 100; 4,5 m = 045)					XXX				
Diameter DN 4/6 mm								4	
Diameter DN 6/8 mm								6	
PTFE core									PTFE
PFA core									PFA
Power supply 230 V/50-60 Hz									2
Power supply 115 V/50-60 Hz									1
End configuration side 2 Type F (without cable)									F
End configuration side 2 Type H (without cable)									H
End configuration side 1 Type A (feed cable)									A
End configuration side 1 Type C (feed cable)									C
Without calibration gas line									0
Calibration gas line 2/3 mm									2
Calibration gas line 4/6 mm									4

Order code

JH3FGR

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Specification subject to change without notice.

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JCT Analystechnik GmbH

Werner Heisenberg-Straße 4 A-2700 Wiener Neustadt
 Tel. +43 (0) 2622 / 87201 Fax +43 (0) 2622 / 872011
 E-Mail: sales@jct.at Web: www.jct.at

